ABSTRACT OF THE DISCLOSURE

A solar cell assembly including a solar cell, a first lead electrode bonded to an end portion of one of opposite surfaces of the solar cell which functions as a light-receiving surface, a second lead electrode bonded to a substantially entire portion of the other of the opposite surfaces of the cell, and a metallic sheet which is bonded to one of opposite surfaces of the second lead electrode remote from the solar cell, and which has a lower coefficient of thermal expansion than the second lead electrode. Also disclosed is a photovoltaic electric generator of concentrator type including an array of a plurality of solar cell assemblies, and electrically conductive members in the form of metallic foils connected to the solar cell of each assembly, a heat dissipating layer formed of a synthetic resin containing a thermally conductive filler, and a base plate to which each cell assembly is fixed through the heat dissipating layer. The solar cell assembly is embedded in the heat dissipating layer.